

STRUCTURE SECTIONS

U.S. GEOLOGICAL SURVEY
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PENNSYLVANIA-NEW JERSEY
GERMANTOWN QUADRANGLE

LEGEND

SEDIMENTARY ROCKS

SHEET SECTION SYMBOL SYMBOL

Quc Quc

Unclassified deposits
(gravel, sand, and loam of various ages usually thin and discontinuous, with occasional outcrops of older formations)

UNCONFORMITY

Qcm Qcm

Cape May formation
(sand and gravel, chiefly on terrace)

Qpd Qpd

Pensauken formation
(Delaware River phase, Qpd; tributary valley phase, Qpt; above sand and gravel, possibly includes material of highly different ages)

UNCONFORMITY

Ti Ti

Lafayette formation
(loam, clay, sand, and gravel)

UNCONFORMITY

Kpt Kc

Patapsco formation
(highly colored clay)

UNCONFORMITY

Tb Tb

Brunswick shale
(red shale in greater part)

Tl Tl

Lockatong formation
(dark, hard shale and fine grained sandstone, with some red layers)

Ts Ts

Stockton formation
(gray sandstone, shales, and red shale)

UNCONFORMITY

COs COs

Shenandoah limestone
(crystalline blue and white, siliceous magnesian limestone)

Ec Ec

Chickies quartzite
(thin bedded, conglauate quartzite)

UNCONFORMITY

wg wg

Wissahickon gneiss
(banded quartz-feldspar rock with garnet, sillimanite, and andalusite)

bgn bgn

Baltimore gneiss
(banded quartz-feldspar rock containing hornblende or biotite in more massive granites)

IGNEOUS ROCKS

Diabase dikes
(aegle-labradorite rock)

Triassic

pt pt

Pegmatite
(quartz-feldspar-mica vein rock)

ORDOVICIAN OR YOUNGER

mg mg

Metagabbro
(dikes of fine grained hornblende-labradorite rock, closely related to the gabbro)

Metaproxenite and metaperidotite
(serpentine, staurolite, and associated alteration products)

EARLY CAMBRIAN OR OLDER

gb gb

Gabbro
(quartz gabbro, hypersthene gabbro, and norite)

hgn hgn

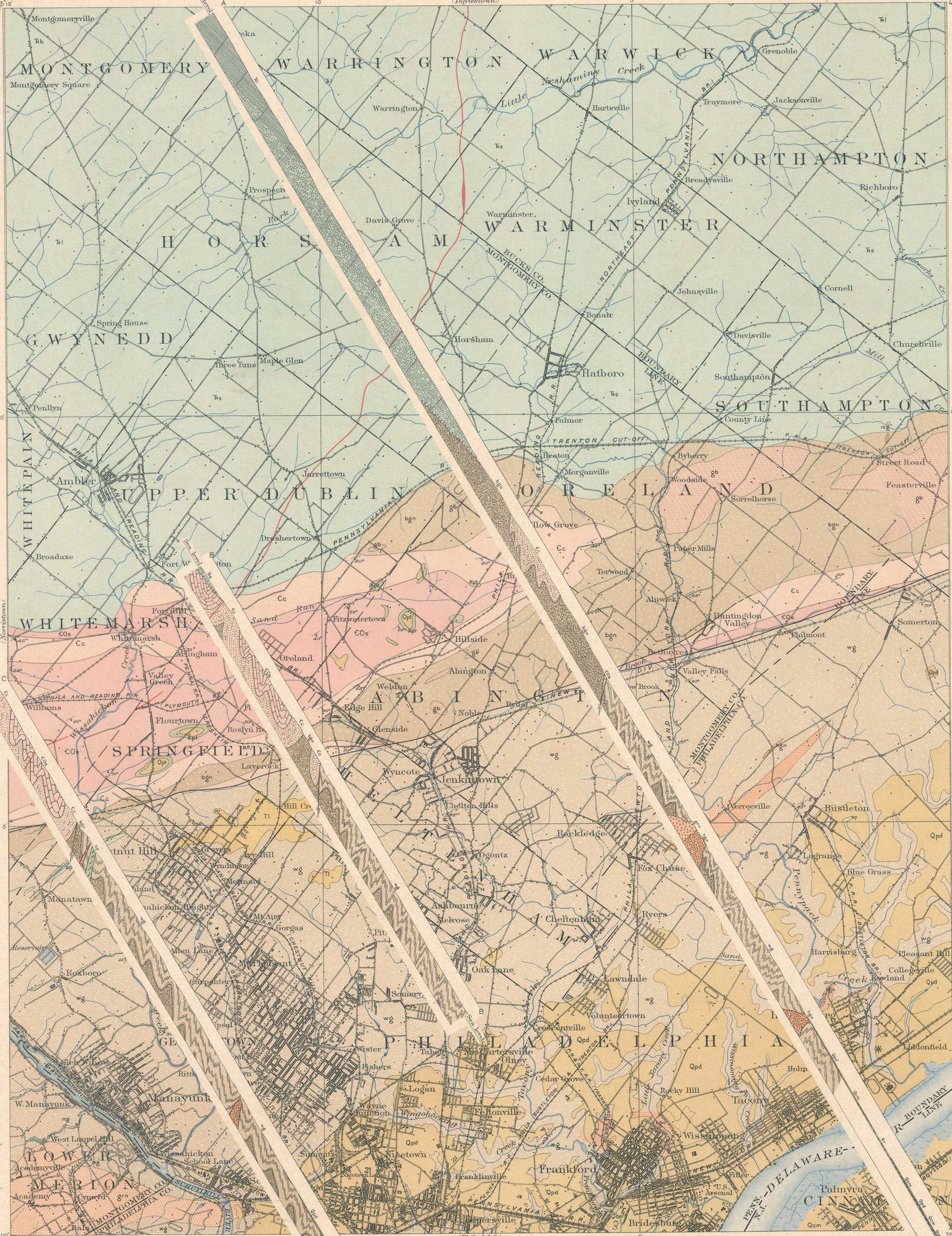
Hornblende gneiss
(hornblende-labradorite rock)

grn grn

Granite gneiss
(quartz-orthoclase-biotite-hornblende rock)

Faults

Strike and dip of sedimentary rocks
Strike of vertical beds
Strike and dip of schistosity



Henry Gannett, Chief Topographer.
H.M. Wilson, Chief Geographer in charge.
Triangulation by U.S.C. and G.S. and City of Philadelphia.
Topography by Frank Sutton, Robert Muldrow, and J.H. Jennings.
Surveyed in 1894.

Scale 62500
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Kilometers

Geology of the pre-Triassic by F. Bascom;
Triassic, by N.H. Darton;
Cretaceous and Tertiary by B.L. Miller;
Quaternary of New Jersey by G.N. Knapp.
Surveyed in 1894-1907.

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